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Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/AN/WNo.18/CEMENT/2013-14 Date: 28.10.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore
AGENCY	:	**M/s. Abhivrudh Nirman**, Bangalore.
NAME OF THE WORK	:	Formation of 6th Main Road KGES Layout from 8th Cross to end in Ward No. 18, BBMP, Bangalore.
REFERENCE	:	EE/H/AE/WO/129/2013-14 Dated: 25.10.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No : CTCE/BBMP/AN/WNo.18/SAND/2013-14 : 28.10.2013

TEST REPORT ON FINE AGGREGATES (SAND)

IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **M/s. Abhivrudh Nirman,** Bangalore.

Name of Work : Formation of 6th Main Road KGES Layout from 8th Cross to end in Ward No. 18, BBMP, Bangalore.

Reference : EE/H/AE/WO/129/2013-14 Dated: 25.10.2013

Date of Testing : 28.10.2013

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	4.25	4.25	95.8	90-100
2.36	269	13.45	17.70	82.3	75-100
1.18	375	18.75	36.45	63.6	55-90
600 Micron	521	26.05	62.50	37.5	35-59
300 Micron	506	25.30	87.80	12.2	8-30
150 Micron	178	8.90	96.70	3.3	0-10

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Job No.: CTCE/BBMP/AN/WNo.18/AGG/2013-14 : 28.10.2013

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **M/s. Abhivrudh Nirman,** Bangalore.

Name of Work : Formation of 6th Main Road KGES Layout from 8th Cross to end in Ward No. 18, BBMP, Bangalore.

Reference : EE/H/AE/WO/129/2013-14 Dated: 25.10.2013

Date of Testing : 28.10.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25250**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	985	3.90	3.90	96.10	95-100
20	16357	64.78	68.68	31.32	30-70
10	4986	19.75	88.43	11.57	10-35
4.75	2612	10.34	98.77	1.23	0-5

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No. CTCE/BBMP/AN/WNo.18/Precast Slab/2013-14 07.11.2013

TEST REPORT ON CONCRETE CORE (PRECAST SLAB)

Client	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
Agency	:	**M/s. Abhivrudh Nirman,** Bangalore.
Name of work	:	Formation of 6th Main Road KGES Layout from 8th Cross to end in Ward No. 18, BBMP, Bangalore.
Reference	:	EE/H/AE/WO/129/2013-14 Dated: 25.10.2013
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Date of Testing	:	07.11.2013

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.377	2526.38	1.52	0.950	31.9	16.23	17.52	16.65	20.81
2	50.00	78.00	0.392	2559.54	1.56	0.960	32.2	16.37	17.68	16.98	21.22
3	50.00	80.00	0.404	2571.94	1.60	0.950	32.9	16.73	18.07	17.17	21.46

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Job No.: CTCE/BBMP/AN/WNo.18/CUBE/2013-14 28.11.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
Agency	: **M/s. Abhivrudh Nirman,** Bangalore.
Name of the work	: Formation of 6th Main Road KGES Layout from 8th Cross to end in Ward No. 18, BBMP, Bangalore.
Reference	: EE/H/AE/WO/129/2013-14 Dated: 25.10.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2013	28.11.2013	8.132	362.4	16.11
2	31.10.2013	28.11.2013	8.217	396.5	17.62
3	31.10.2013	28.11.2013	8.326	378.8	16.84

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